

Directions	
Teacher	Student
<p>General Planning/Student Preparation:</p> <p>This task follows an introductory unit on energy flow through and ecological system.</p> <p><u>Prerequisite skills necessary:</u></p> <ul style="list-style-type: none"> <li>•Scientific Inquiry</li> <li>•Using evidence to draw conclusions</li> <li>•Collect and display sequential data</li> <li>•Convey information in a written form</li> </ul>	<p>With the teacher, you should:</p> <ul style="list-style-type: none"> <li>• Review trophic levels of food webs</li> <li>• Review food web classification vocabulary</li> <li>• Identify types of consumers</li> </ul>
<p>Guidelines for Administering the Task:</p> <ul style="list-style-type: none"> <li>• Review basic food web concepts and trophic levels.</li> <li>• Check for accuracy in food web construction.</li> </ul>	<p>Independently, you should:</p> <ul style="list-style-type: none"> <li>• Group organisms according to energy sources</li> <li>• Display the flow of energy through the food web</li> <li>• Make predictions how external environmental factors affect the food web. Analyze and draw conclusions by answering the questions provided.</li> </ul>
<p><b>Time:</b> 2 Class Periods</p>	<p><b>Task Conditions:</b> Individually completed on demand in the classroom setting. All students will have access to notes, handouts and textbooks for reference during this activity.</p>
Task Prompt	
<ul style="list-style-type: none"> <li>• In the exercise we will look at energy flow through an ecological system (the Chaparral). You will be given three sheets that contain various producers, and consumers. You will construct a food web and display the flow of energy and identify how environmental factors affect the ecosystem.</li> <li>• Cut images out sort according to energy sources.</li> <li>• Color code each organism according to trophic level.</li> <li>• Organize the coded organism into a food web.</li> <li>• Use arrow to display the energy flow through the food web.</li> <li>• Show the movement of pesticides through the food web.</li> <li>• Answer questions.</li> </ul>	